

Application No. 10/025,776
Response dated November 10, 2003
Response to Notice of Allowability
mailed October 17, 2003
Docket No. 8033-1017

APPENDIX:

The Appendix includes the following item(s):

- copy of amendment filed June 10, 2003, with date-stamped postcard receipt



8033-1017

THE STAMP OF THE PATENT OFFICE MAIL HEREON ACKNOWLEDGES THE
RECEIPT OF THE BELOW-IDENTIFIED DOCUMENT ON THE DATE INDICATED
BY SUCH STAMP.

In re: Toshiyuki KAMBE

S.N. 10/025,776 Group 2874

AMENDMENT in response to O.A. of March 21, 2003

TWP/lk





Atty. Docket No. 8033-1017

PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Toshiyuki KAMBE

Confirmation No. 5681

Serial No. 10/025,776

GROUP 2874

Filed December 26, 2001

Examiner Daniel E. Valencia

WAVEGUIDE-TYPE OPTICAL CONTROL DEVICE AND
PROCESS FOR PRODUCING THE SAME

AMENDMENT

COPY

Commissioner for Patents
PO Box 1450
Alexandria, Virginia 22313-1450

Sir:

Responsive to the Official Action of March 21, 2003,
please amend the above-identified application as follows:

IN THE CLAIMS:

Add the following new claims:

--36. (new) The device of claim 18, wherein, within said first directional coupler, said two optical waveguides converge toward each other, maintain a coupling distance, and diverge from each other, and within said second directional coupler, said two optical waveguides converge toward each other, maintain a coupling distance, and diverge from each other, and wherein at least one of said first and second electrodes extends into at least one of said first and second directional couplers to where said two optical waveguides maintain a coupling distance.

--37. (new) The device of claim 19, wherein, within said first directional coupler, said two optical waveguides converge toward each other, maintain a coupling distance, and diverge from each other, and within said second directional coupler, said two optical waveguides converge toward each other, maintain a coupling distance, and diverge from each other, and

wherein at least one of said first and second electrodes extends into said first directional coupler to where said two optical waveguides maintain a coupling distance and wherein at least one of said first and second electrodes extends into said second directional coupler to where said two optical waveguides maintain a coupling distance.

--38. (new) The device of claim 33, wherein, within said first directional coupler, said two optical waveguides converge toward each other, maintain a coupling distance, and diverge from each other, and within said second directional coupler, said two optical waveguides converge toward each other, maintain a coupling distance, and diverge from each other,

wherein said third electrode extends into at least one of said first and second directional couplers to where said two optical waveguides maintain a coupling distance.--

REMARKS

The specification has been carefully reviewed for minor errors, as requested in the Official Action.

The indication that claims 1-17 and 20-25 have been allowed is acknowledged with thanks.

New claims 36-38 have been added, leaving claims 1-25, 33-34, and 36-38 in the application.

Claims 18-19 and 33-34 were rejected as anticipated by THANIYAVARN US2002/0025103 A1. Reconsideration and withdrawal of the rejection are respectfully requested.

Among other features, these claims provide that at least one of the first and second electrodes and the third electrode extend into at least part of the first or second directional coupler.

The Official Action states that THANIYAVARN discloses this feature. Reconsideration of this statement is respectfully requested because the reference shows in Figures 3A, 3B, 7A, 7B, 8, 9, 11A, and 13A that the first, second, and third electrodes do not extend beyond the phase shifter. There is no suggestion or teaching in this reference to extend any of the electrodes beyond the phase shifter. The electrodes in the directional couplers are not extensions of the electrodes in the phase shifter. Accordingly, the reference does not disclose that at least one of the first and second electrodes and the third electrode extend into at least part of the first or second directional coupler and these claims avoid the rejection under §102.

New claims 36-38 define the invention with greater particularity. The directional couplers include portions where the two optical waveguides converge toward each other, maintain a coupling distance, and diverge from each other, and at least one of the electrodes extends in at least one of the directional couplers to where the two optical waveguides maintain a coupling distance. THANIYAVARN does not show that any of the electrodes in the phase shifter extend to the portion of the directional couplers where the optical waveguides maintain a coupling distance, and thus the new claims are also believed to be allowable.

In view of the foregoing remarks, it is believed that the present application is in condition for allowance. Reconsideration and allowance are respectfully requested.

Respectfully submitted,

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June 10, 2003

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